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200. BY R. J. ADCOCK. — Prove that the locus of points, which have the sum of the squares of their distances from fixed points constant, is the surface of a sphere.

201. BY PROF. ASAPH HALL.—Given

$$x = a \cos A \pm r_1,$$

$$y = a \sin A \pm r_2,$$

where r_1 and r_2 are the probable errors of x and y . Required the probable errors of a and A .

QUERY, BY CHRISTINE LADD.—Which of the two following statements is correct?

“The point $x'y'z'$ is a multiple point of the order k , if all the differential coefficients of the order $k - 1$ vanish for that point.” (Salmon, *Higher Plane Curves*, Art. 73.)

“Il s'ensuit que, pour un point multiple de l'ordre n , il est nécessaire, mais non suffisant, que les dérivées partielles de la fonction f des ordres inférieurs à n s'annulent toutes pour les co-ordonnées du point m .” (Serret, *Calcul Différentiel*, Art. 186.)

PUBLICATIONS RECEIVED.

The National Quarterly Review. (Jan., 1878.) DAVID A. GORTON & Co., Publishers, N. Y.

Besides the vigorous and scholarly literary articles which this periodical usually contains, this No. contains an interesting review of *The Progress of Modern Astronomy*.

The Mathematical Visitor, No. 2. ARTEMAS MARTIN, M. A., Editor and Publisher, Erie, Pa. 4to. 38 pp. This is an annual publication, devoted exclusively to the solution of problems, and contains a variety of problems, and many elegant solutions. Price 50 cts.

ERRATA.

On page 161 (Vol. IV), line 15, for θ' , θ'' , θ''' , read θ^0 , θ^{00} , θ^{000} .

“ “ “ “ 2, from bottom, for 48, at end of line, read 54.

“ “ 162, “ 5, read $A = \frac{2}{1+b} \cdot \frac{2}{1+b^0} \cdot \frac{2}{1+b^{00}} = \left[\frac{2}{4\sqrt{b+\cos\frac{1}{2}\phi}} \right]^2$.

“ “ “ “ 14, for $\sqrt{(1+e^2\sin^2\theta)}$, read $\sqrt{(1-e^2\sin^2\theta)}$.

“ “ 7 (Vol. V), “ 12, for thirty, read sixty.

“ “ “ “ 15, for tables, read totals.

“ “ 9, “ 3, from bottom, for $\triangle d\psi$, read $A\triangle d\psi$.

“ “ 11, “ 3, “ “ for $\sqrt{b}\sin\theta$, read $\sqrt{b}\tan\theta$.

“ “ 15, “ 3, for the factor $2\pi\div A$, read $4\div A$.

“ “ 47, “ 8, for ψ , read ϕ .

“ “ “ line 22, for $(\cot a \cot b)(\cot x_1 \cot b)$, read $(\cot a + \cot b)(\cot x_1 + \cot b)$.

“ “ 48, in (20), for $\pm p$ read $\mp p$, and in (21), for $\pm p_1$, read $\mp p_1$.

“ “ 53, line 1, for e' , read e_1 , and in line 4, from bot., for $1-a^2$, read $1+a^2$.